

Application No.: 10/627,550
Docket No.: UC0015 US NA

Page 2

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A composition comprising polyaniline (~~PANI~~), with poly(2-acrylamido-2-methyl-1-propanesulfonic acid) as the counterion (PANI/PAAMPSA), and an amount of poly(styrenesulfonic acid) (PSS), and polyacrylamide (PAM), wherein the PANI/PAAMPSA:PSS weight % ratio is in the range of about 1:0.05 up to about 1:2, and the PANI/PAAMPSA:PAM weight % ratio is in the range of about 1:0.5 up to about 1:2, sufficient to reduce the conductivity of said composition.
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Original) A composition according to claim 1, wherein the PANI/PAAMPSA:PSS weight % ratio is in the range of about 1:0.2 up to about 1:1.
6. (Canceled)
7. (Canceled)
8. (Canceled)
9. (Canceled)
10. (Canceled)
11. (Currently Amended) A high resistance film comprising polyaniline with poly(2-acrylamido-2-methyl-1-propanesulfonic acid) as the counterion (PANI/PAAMPSA), poly(styrenesulfonic acid) (PSS), and polyacrylamide (PAM), wherein the PANI/PAAMPSA:PSS weight % ratio is in the range of about 1:0.05 up to about 1:2, and the PANI/PAAMPSA:PAM weight % ratio is in the range of about 1:0.5 up to about 1:2. PANI/PAAMPSA and PSS.
12. (Canceled)
13. (Original) A high resistance film according to claim 11, wherein said film has a conductivity less than about 1×10^{-4} S/cm.
14. (Original) A high resistance film according to claim 11, wherein said film has a conductivity less than about 1×10^{-6} S/cm.
15. (Original) A high resistance film according to claim 11, wherein said film can be dried at temperatures of less than about 90°C.
16. (Canceled)
17. (Canceled)
18. (Canceled)
19. (Canceled)
20. (Currently Amended) An electronic device comprising a high resistance buffer layer comprising polyaniline with poly(2-acrylamido-2-methyl-1-

Application No.: 10/627,550
Docket No.: UC0015 US NA

Page 3

propanesulfonic acid) as the counterion (PANI/PAAMPSA), poly(styrenesulfonic acid) (PSS), and polyacrylamide (PAM), wherein the PANI/PAAMPSA:PSS weight ratio is in the range of about 1:0.05 up to about 1:2, and the PANI/PAAMPSA:PAM ratio is in the range of about 1:0.5 up to about 1:2. PANI/PAAMPSA and PSS.

21. (Canceled)
22. (Original) An electronic device according to claim 20, wherein said buffer layer has a conductivity less than about 1×10^{-4} S/cm.
23. (Original) An electronic device according to claim 20, wherein said buffer layer has a conductivity less than about 1×10^{-6} S/cm.
24. (Currently Amended) The electronic device of claim 20, wherein the electronic device comprises a displayan organic light emitting diode.
25. (Canceled)
26. (Canceled)
27. (Canceled)
28. (New) A composition according to claim 1, wherein the PANI/PAAMPSA:PSS:PAM weight % ratio is in the range of about 1:1:1 to about 1:0.5:1.5.
29. (New) A composition comprising an aqueous solution of polyaniline with poly(2-acrylamido-2-methyl-1-propanesulfonic acid) as the counterion (PANI/PAAMPSA), poly(styrenesulfonic acid) (PSS), and polyacrylamide (PAM), wherein the PANI/PAAMPSA:PSS weight % ratio is in the range of about 1:0.05 up to about 1:2, and the PANI/PAAMPSA:PAM weight % ratio is in the range of about 1:0.5 up to about 1:2, wherein said aqueous solution is subjected to sonication treatment.
30. (New) A composition according to claim 29, wherein the sonication treatment is carried out in an ultrasonic bath.
31. (New) A composition according to claim 29, wherein the sonication treatment is carried out for from about 1 to about 8 hours.
32. (New) A high resistance film made from the composition of Claim 29.